

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WAD98073854697003		Manifest Document No. 24th PAGER		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address ALASKAN COPPER WORKS P.O. Box 3546, Seattle, WA 98124						A. State Manifest Document Number							
4. Generator's Phone (206) 623-5801						B. State Generator's ID							
5. Transporter 1 Company Name M.C. NOTTINGHAM CO OF SO CA.						C. State Transporter's ID							
6. US EPA ID Number KAD059240713						D. Transporter's Phone (909) 623-3264							
7. Transporter 2 Company Name						E. State Transporter's ID							
8. US EPA ID Number						F. Transporter's Phone							
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Phoenix, Arizona 85043						G. State Facility's ID							
10. US EPA ID Number AZD980735500						H. Facility's Phone 800-972-1955							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. <input type="checkbox"/> HM RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III						003 CF		4394 P				F006	
b. <input type="checkbox"/>													
c. <input type="checkbox"/>													
d. <input type="checkbox"/>													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information 24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Emergency call pager #206-648-8423) (Use CHEMTREC company code "WORK") Wear gloves & goggles P.O. # M62213													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Gerald A. Thompson						Signature [Signature]						Month Day Year 12/30/99	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name JAY ROY RELPH						Signature [Signature]						Month Day Year 01/30/00	
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature						Month Day Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name						Signature						Month Day Year	

# LAND DISPOSAL RESTRICTION NOTICE

(effective 12/19/94)

(A copy of this Notice must be retained by the generator for at least 5 years in conformance with 40 CFR §268.7(a)(7) (1995). This 5 year record retention mandate may be automatically extended under the regulation.)

**TO:** World Resources Company  
8113 West Sherman Street  
Phoenix, Arizona 85043

**FROM:** Alaskan Copper Works  
(Company Name)  
3200 Sixth Avenue South Seattle, WA 98134  
(Address)

**Manifest Number:** 99005

**Date of Shipment:** 6-30-99

This shipment of material is subject to the land disposal restrictions of 40 CFR, Part 268. The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR §268.7 and is shown below:

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards*
F006	Nonwastewater	40 CFR §268.40

\* As identified in 59 Fed. Reg. 48,047/48-9/53-4 (September 19, 1994)



(Signature)

Gerald A. Thompson

(Typed/Printed Name)

Enviro tech

(Title)

## MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:  
Hazardous waste, solid, n.o.s., (F006)

NORTH AMERICAN  
EMERGENCY RESPONSE  
GUIDEBOOK

# TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

## POTENTIAL HAZARDS

### FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- Some may polymerize (P) explosively when heated or involved in a fire.
- Containers may explode when heated.
- Some may be transported hot.

### HEALTH

- Inhalation of material may be harmful.
- Contact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

## PUBLIC SAFETY

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W0RR").
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.

### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

### EVACUATION

#### Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

## EMERGENCY RESPONSE

### FIRE

#### Small Fires

- Dry chemical, CO<sub>2</sub>, water spray or regular foam.

#### Large Fires:

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

#### Fire Involving Tanks:

- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

### SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- Avoid inhalation of asbestos dust.

#### Small Dry Spills

- With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

#### Small Spills

- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

#### Large Spills

- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

### FIRST AID

- Move victim to fresh air.
- Call emergency medical care.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

**World Resources Company**

8113 West Sherman Street

Phoenix, Arizona 85043

Tele: 1-602-233-9166 Fax: 1-602-936-9164

Issued: 8/7/90

Revised: 10/5/93 DLS

Call CHEMTREC only in the event of  
emergencies during shipping that  
involve a spill, leak, fire, or accident  
(all calls are recorded)

For Emergencies During Shipping in  
the US or Canada, Day or Night,

Call: CHEMTREC 800-424-9300

(Use Chemtrec Company Code "WRR")

For calls from other countries call:

202-483-7616 Collect

## Section 1

## PRODUCT - MATERIAL IDENTIFICATION

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge  
Environmental Protection Agency (EPA) Waste Classification: F006  
Chemical Family: Metallic (Hydroxide) Precipitates  
Synonym: Non-ferrous Metal Hydroxide Filter Cake

DOT Shipping Name: RQ, Hazardous waste, solid, n.o.s., (F006)  
DOT Hazard Class: 9; Packing Group: III  
DOT Identification Number: NA 3077  
Guide 171 of the 1996 North American Emergency Response  
Guidebook Applies

## Section 2

## HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
Copper Hydroxide	20427-59-2	0-30	1.0 mg/m <sup>3</sup> (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0-15	1.0 mg/m <sup>3</sup> (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg/m <sup>3</sup> (Dust)	LD-50 7,340 mg/kg
Diatomaceous Earth	68855-54-9	0-10	6.0 mg/m <sup>3</sup> (Dust)	LD-50 3,160 mg/kg

## Section 3

## PHYSICAL AND REACTIVITY DATA

Description: Solid, Clay-like Clumps,  
Gray/Green to Brown,  
Water Content 30-80%

Density: 64 to 90 lbs/cu/ft  
Incompatible Reactivity: None Known  
Vapor Pressure: Insignificant  
Stability: Avoid contact with acids  
Polymerization: Will not occur

Boiling Point: Above 2600°C  
Melting Point: Above 1800°C  
pH: 7.0 to 10.0  
Odor: Nil

Specific Gravity: 2.5 to 3.5  
Solubility: Insoluble in water

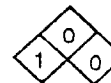
## Section 4

## FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable  
Special Firefighting Procedures: None  
Product Decomposition: . . . . . (Due to Fire or Explosion): None

Oxidation: Non-oxidizing  
Explosive: Non-explosive

NFPA  
Fire Diamond



## Section 5

## TOXICITY

Listed Carcinogen component: Nickel  
Toxicology: See Sec. 2 (Nickel Hydroxide)  
Route of Entry: Inhalation and Ingestion

## Section 6

## HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

## Section 7

## PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

## Section 8

## CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.  
Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.  
Hand Protection: Gloves recommended.

## Section 9

## GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: 97005 Telephone: 206-382-8379 Date: 6-30-91

Company Name and Address: ALASKAN COPPER WORKS 628 HARBOR ST

Signature: [Signature]

AZF-WRC 9/4/96

AKC-0017520